

Attorney's Docket: 2000DE426D

Serial No.: 10/103,903

Response to Notice of Non-Compliant Amendment mailed July 2, 2004

This listing of claims will replace all prior versions, and listings of claims in the application:

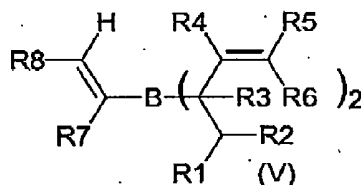
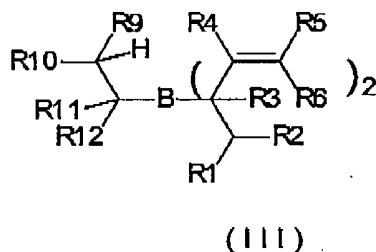
This listing of claims will replace all prior versions, and listings of claims in the application:

Claims 1-7 (Canceled)

8.(Withdrawn) Di(1-1-isopropyl-3-methylbut-2-enyl)borane of the formula (Ia).

9.(Withdrawn) A bis(allyl)borane of the formula (I) obtainable by a process as claimed in claim 1.

10.(Withdrawn) A Suzuki coupling reaction product obtained through use of a bis(allyl)borane of the formula (III) or (V) in C-C coupling reactions.

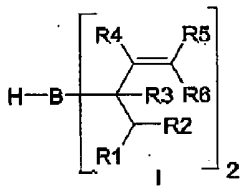


11.(Currently Amended) A process for preparing boronic [[acids]] acid esters by reaction of a diene with sodium borohydride in the presence of [[an]] a first oxidant selected from the group consisting of an alkyl halide, a dialkyl sulfate, and mixtures thereof to form the corresponding bis(allyl)borane of the formula (I) ~~as described in claim 4~~

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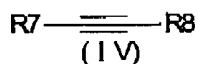
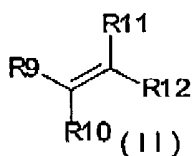
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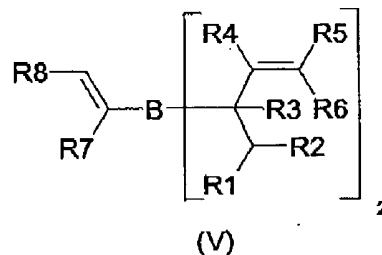
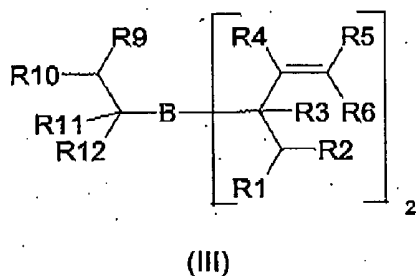
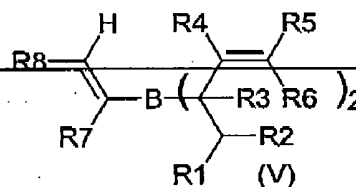
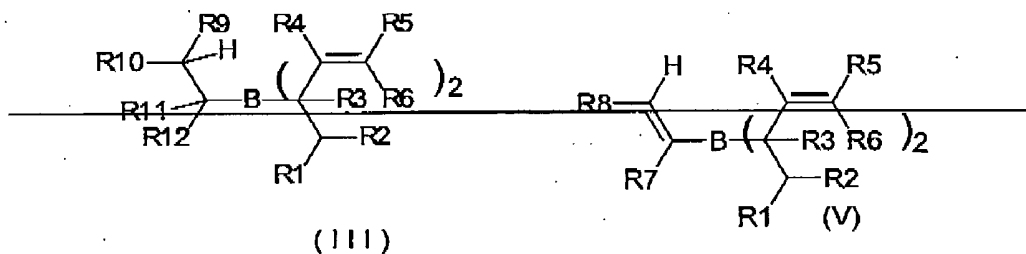
wherein  $\text{R}^1\text{-R}^6$  are H, aryl or substituted or unsubstituted  $\text{C}_1\text{-C}_4$ -alkyl or two of the radicals  $\text{R}^1\text{-R}^6$  may be closed to form a cyclic system,

and further reaction of the borane (I) with an appropriate alkene (II) or alkyne (IV) to



give the

alkylbis(allyl)borane (III) or alkenylbis(allyl)borane (V)



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wherein the radicals  $R^7$  to  $R^{12}$  are: aryl, substituted or unsubstituted, alkyl-(C<sub>1</sub>-C<sub>8</sub>), which may be branched and/or substituted, alkoxy-(C<sub>1</sub>-C<sub>8</sub>), acyloxy-(C<sub>1</sub>-C<sub>8</sub>), O-phenyl, fluorine, chlorine, NO<sub>2</sub>, NH<sub>2</sub>, NHalkyl-(C<sub>1</sub>-C<sub>8</sub>), Nalkyl<sub>2</sub>-(C<sub>1</sub>-C<sub>8</sub>), CN, CHO, SO<sub>3</sub>H, SO<sub>3</sub>R, SO<sub>2</sub>NH<sub>2</sub>, SO<sub>2</sub>N(alkyl-(C<sub>1</sub>-C<sub>8</sub>))<sub>2</sub>, SO<sub>2</sub>-alkyl-(C<sub>1</sub>-C<sub>8</sub>), COO-alkyl-(C<sub>1</sub>-C<sub>8</sub>), CONH<sub>2</sub>, CO-alkyl-(C<sub>1</sub>-C<sub>8</sub>), NHCHO, CF<sub>3</sub>, 5-membered heteroaryl or 6-membered heteroaryl, where two of radicals  $R^7$  to  $R^{12}$  may also form a cyclic ring system which may contain heteroatoms which is oxidized directly and directly oxidizing the alkylbis(allyl)borane (III) or alkenylbis(allyl)borane (V) in the presence of [[an]] a second oxidant to form the corresponding bisallyl alkylboronate or alkenylboronate and, if desired, subsequent conversion into a derivative.

Claim 12 (Canceled)

13. The process as claimed in claim 11, wherein the second oxidant [[used]] is selected from the group consisting of formaldehyde, acetone, glyoxal, [[or]] diacetyl, and mixtures thereof.

14. (Withdrawn) A Suzuki coupling reaction product obtained by using bis(allyl) alkylboronate or alkenylboronate produced as claimed in claim 11 in C-C coupling reactions.

15. (New) The process of claim 11, further comprising hydrolyzing the boronic acid esters to form boronic acids